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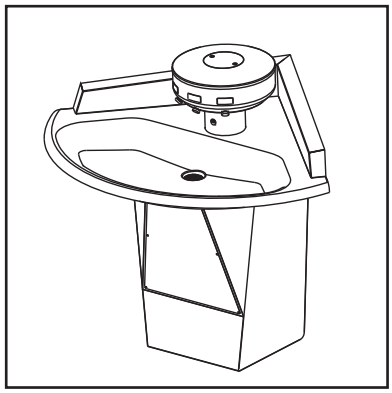
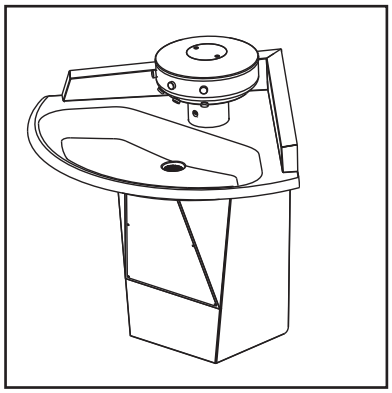
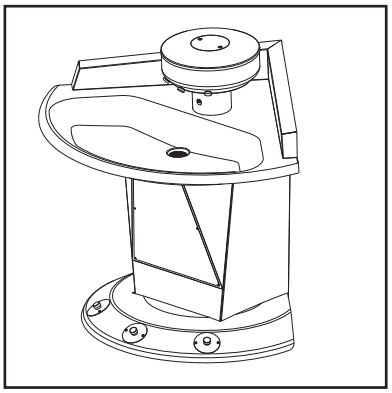
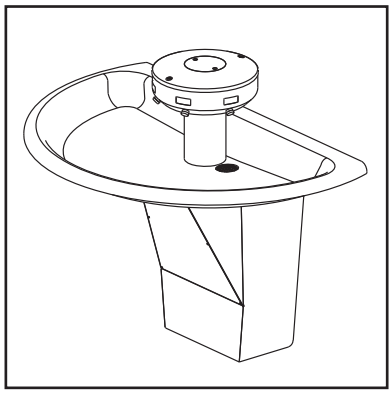
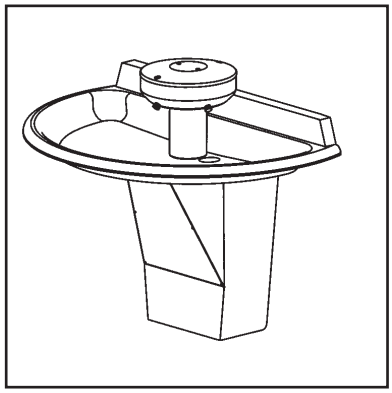
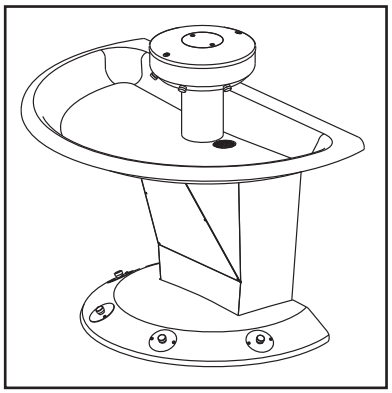
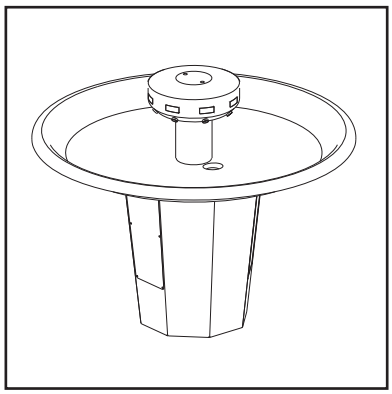
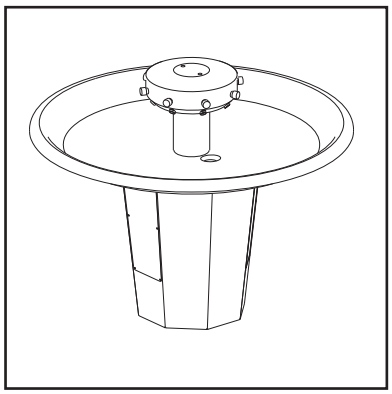
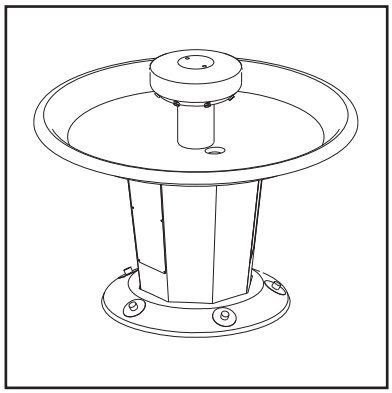




Sentry Washfountain

Parts & Service Guide

Discontinued Models Prior to May 2, 2005

Bradley

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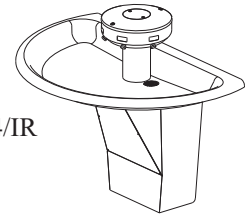
Sentry Washfountain Products

Stainless Steel
– Infrared, Hand or Foot Operated

- **Reliable Pushbutton Activated Air Metering or Infrared Control**
- **Available in a 54" or 36" Bowl Size**
- **Standard Height 54" Model with Hand or Infrared Control is ADA Compliant**
- **Factory Tested and Shipped Preassembled**
- **Vandal Resistant and Easy to Clean**

Models Available:	
SN2003	36" Semi-Circular – Floor-Mounted
SN2004	54" Semi-Circular – Floor-Mounted
SN2023	36" Semi-Circular – Wall-Mounted
SN2024	54" Semi-Circular – Wall-Mounted
SN2005	36" Circular – Floor-Mounted
SN2008	54" Circular – Floor-Mounted
SN2013	54" Corner – Floor-Mounted
SN2033	54" Corner – Wall-Mounted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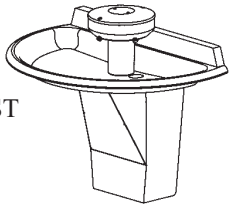
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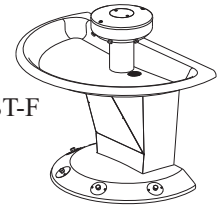
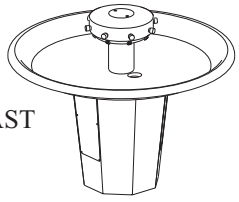

SN2004/AST-F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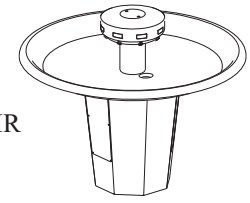
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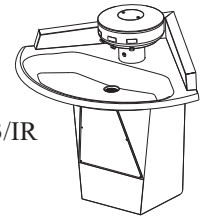
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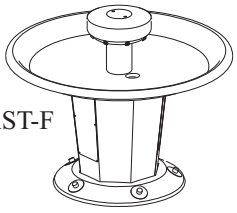
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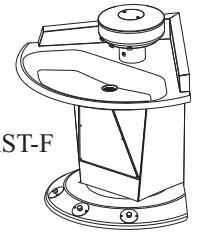
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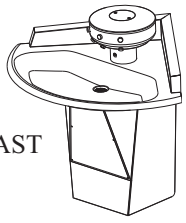
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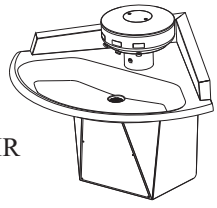
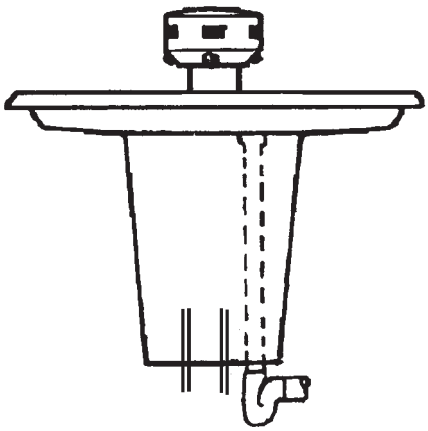
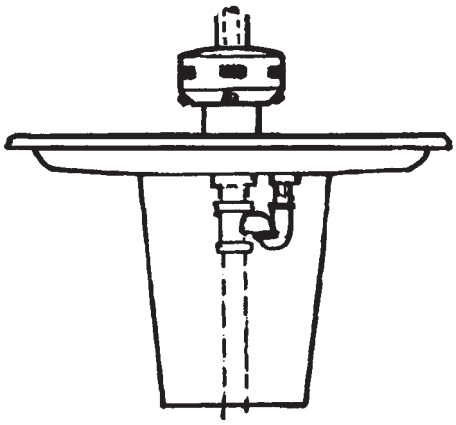

SN2033/IR

How to Determine Drain Type

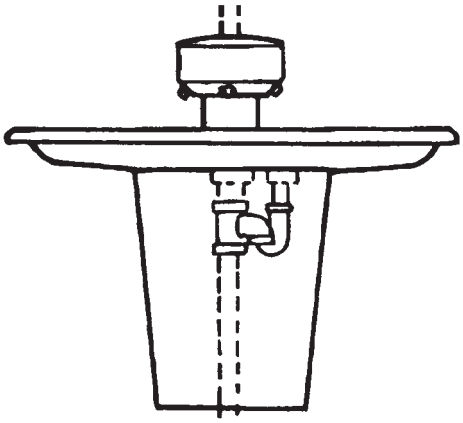
(Parts may vary depending upon drain type. Identify your drain type before continuing.)



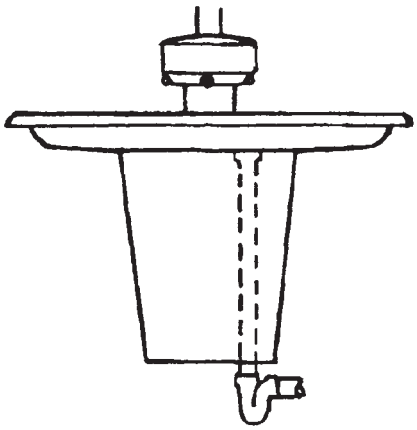
TYPE A:
SUPPLIES BELOW,
VENT OFF DRAIN.
P-TRAP FURNISHED BY OTHERS.



TYPE B:
SUPPLIES ABOVE,
CENTRALLY-RISING VENT.
P-TRAP FURNISHED.

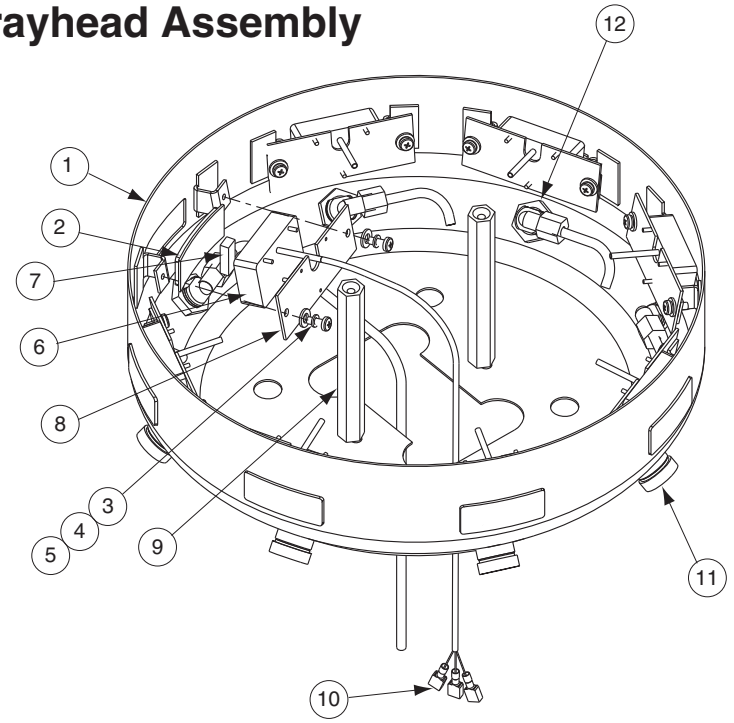


TYPE H:
SUPPLIES BELOW,
CENTRALLY-RISING VENT.
P-TRAP FURNISHED.



TYPE O:
SUPPLIES ABOVE,
VENT OFF DRAIN.
P-TRAP FURNISHED BY OTHERS.

Infrared (IR) — Sprayhead Assembly

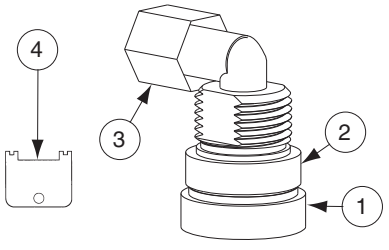


Parts List — Infrared Sensor and Module

Item	Part No.	Description	54" Corner Qty	36" Semi Qty	54" Semi Qty	36" Circle Qty	54" Circle Qty
1	—	Shell	1	1	1	1	1
2	269-982	Lens (window)	3	3	4	5	8
3	160-245	Screw 10-24 x 1/2"	6	6	8	10	16
4	142-002BT	Lock Washer	6	6	8	10	16
5	142-002AV	Flat washer	6	6	8	10	16
6	269-1184	Sensor	3	3	4	5	8
7	182-100	Lens Support (Rubber Block)	3	3	4	5	8
8	159-363	Sensor Mounting Bracket	3	3	4	5	8
9	161-082	Nut - Extension 1/4"-20 x 5-1/8"	2	2	2	2	2
10	269-621	Terminal - female disconnect	9	9	12	15	24
11	S05-157	Aerator Assembly (Std 0.5 GPM)	3	3	4	5	8
11	S05-172	Aerator Assembly (Optional 1.5 GPM)	3	3	4	5	8
12	110-115	Nut - 1/2" - 14	3	3	4	5	8

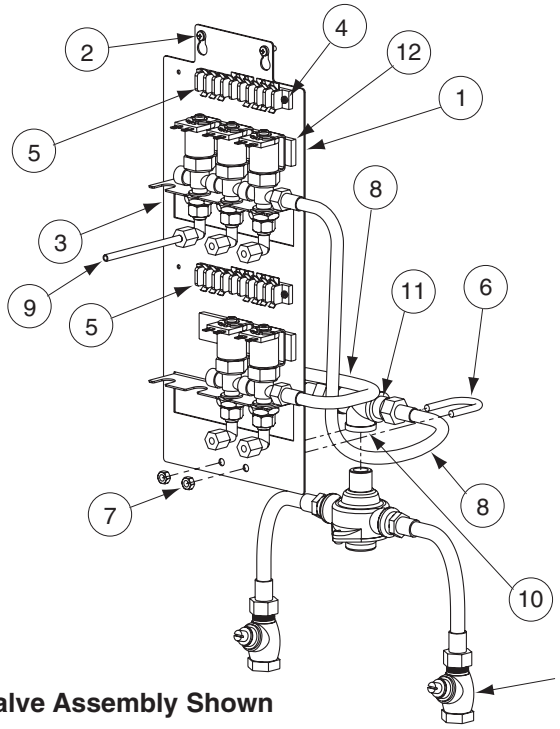
Parts List — Aerator Assembly

Item	Part No.	Description	S05-157 Qty	S05-172 Qty
1	S05-142A	Std. Aerator, 0.5 GPM	1	—
1	153-397	Extra Flow Aerator, 1.5 GPM	—	1
2	153-402A	Adapter	1	1
3	145-090	90° Connector 1/4" tube x 1/8" NPT	1	1
* 4	130-141	Spanner Wrench for Aerator	—	—



* Spanner wrench not included in Assemblies

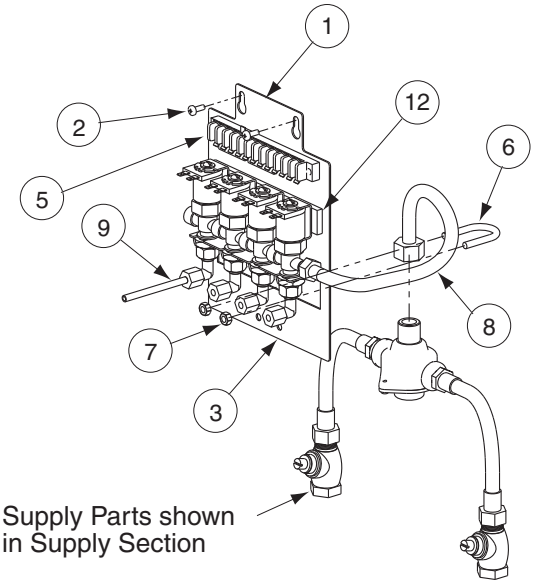
Infrared (IR) — Solenoid Valve Assembly (24V Transformer) Prior to May 2, 2005



5 Valve Assembly Shown

Solenoid Valve parts shown on following page.

4 Valve Assembly Shown



Supply Parts shown in Supply Section

Parts List — Solenoid Assembly

Item	Part No.	Description	54" Corner Qty	36" Semi Qty	54" Semi Qty	36" Circle Qty	54" Circle Qty
*	S08-061	3 Valve Assy. with Bracket	1	1	—	—	—
1	S08-062	4 Valve Assy. with Bracket	—	—	1	—	—
1	S08-358	5 Valve Assy. with Bracket	—	—	—	1	—
*	S08-359	8 Valve Assy. with Bracket	—	—	—	—	1
2	160-245	Screw for valve bracket	2	2	2	2	2
3	140-917	Valve Bracket - Semi & Corner	1	1	1	—	—
3	140-918	Valve Bracket - Circle	—	—	—	1	1
4	160-329	Screw 6-32 x 3/8" for terminal block	2	2	2	4	4
*	161-069	Lock Nut 6-32 for terminal block	2	2	2	4	4
5	269-625	Terminal Block - 3 Station	1	1	—	2	—
5	269-647	Terminal Block - 4 Station	—	—	1	—	2
*	S53-128	Wire Assy. Black	3	3	4	5	8
*	S53-129	Wire Assy. Red	3	3	4	5	8
*	269-645	Transformer 4RT Hard Wire 24V	1	1	1	—	—
*	269-703	Transformer 8RT Hardwire 24V - Circle	—	—	—	1	1
6	269-1248	U-Bolt	1	1	1	1	1
7	161-026	Nut 1/4"-20	2	2	2	2	2
8	269-1365	Hose - Braided Flexible	1	1	1	2	2
9	R68-600011	Tubing 1/4" OD (Specify Length in feet)	—	—	—	—	—
10	269-1150	Tee - 1/2" Brass	—	—	—	1	1
11	113-006DH	1/2" Close Nipple	—	—	—	2	2
12	124-051	Anti-Rotation Gasket	1	1	—	2	—
12	124-052	Anti-Rotation Gasket	—	—	1	—	2

Infrared (IR) — Solenoid Valve Components (24V Transformer) *....Continued*

Solenoid Valve S07-040 Individual (End), S07-041 Ganged (Prior to May 2, 2005)

S07-040 Solenoid Valve (Individual)
Used by itself, **or** is the last one (opposite end of the water inlet) in a group.

S07-041 Solenoid Valve (Ganged)
Used in a group, **except** the last in line. Body is drilled to allow water to pass thru into the next in line. This valve includes O-Ring 125-145 to seal to the next valve.

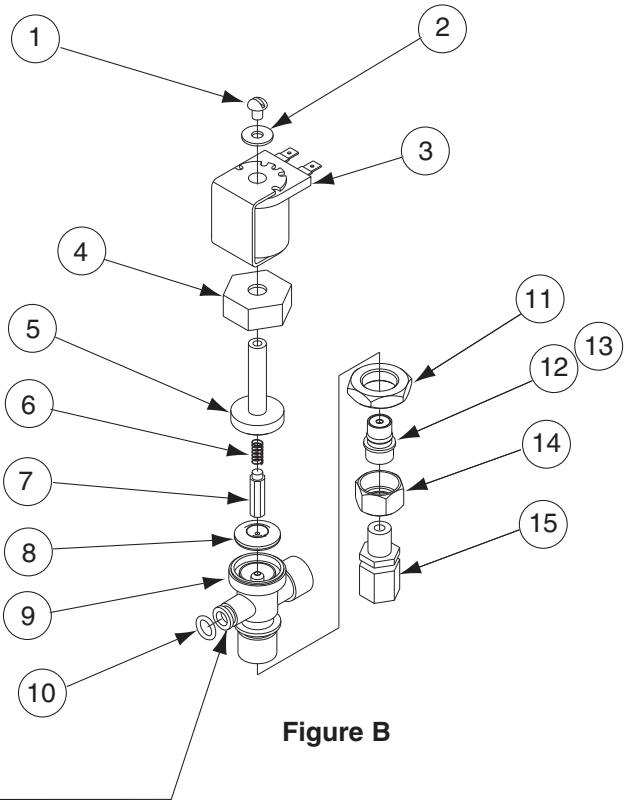


Figure B

Parts List — Solenoid Assembly

Item	Part No.	Description	54" Corner Qty	36" Semi Qty	54" Semi Qty	36" Circle Qty	54" Circle Qty
Fig. B	S07-040	Valve Individual (Includes Items 1-9)	1	1	1	2	2
Fig. B	S07-041	Valve Ganged (Includes Items 1-10)	2	2	3	3	6
1	160-066	Screw 10-24 x 1/4 RD	3	3	4	5	8
2	142-002AZ	Washer Stainless Steel	3	3	4	5	8
3	269-579	Coil - Solenoid Valve	3	3	4	5	8
4	110-194	Nut - Bonnet	3	3	4	5	8
5	121-028	Bonnet	3	3	4	5	8
6	269-578	Spring	3	3	4	5	8
7	269-577	Armature	3	3	4	5	8
8	269-580	Diaphragm	3	3	4	5	8
9	118-237	Valve Body Individual	1	1	1	2	2
9	118-238	Valve Body Ganged	2	2	3	3	6
10	125-145	O-Ring (for ganged valve body)	2	2	3	3	6
11	110-224	Nut	3	3	4	5	8
12	129-049	Tailpiece	3	3	4	5	8
13	125-145	O-Ring	3	3	4	5	8
14	110-195	Tailpiece Nut	3	3	4	5	8
15	145-090	Elbow, 1/8 NPTM x 1/4 Tube	3	3	4	5	8

Infrared (IR) — Sensor and Solenoid Valve Troubleshooting

If a station is not functioning properly it is most likely either the solenoid valve or the sensor.

Troubleshooting multi station units is fairly easy, as you can swap parts (actually just by changing the wires) and use the process of elimination to figure out which of the 2 parts is causing the problem.

How the system operates:

1. The transformer sends 24 volts to the sensor.
2. The sensor acts only as a switch.
3. When hands go into the active field of the sensor, the sensor activates and sends a power signal on to the solenoid valve.
4. The power signal activates and opens the solenoid valve which allows the water to flow to the sprayhead. The solenoid valve stays open allowing water to flow as long as it is receiving a signal form the sensor (hands remain in the active field).
5. When hands are removed from the active field, the sensor turns off (note some models have a slight delay feature built-in.) and shuts off the power signal to the solenoid valve.

Note: *The solenoid valves will be in-line and will be in the same order as the stations (in other words the center solenoid will operate the center station, the right solenoid will operate the right station).*

Complaint: The center station will not shut off.

1. Disconnect the sensor wires to the center solenoid valve and set them out of the way.
2. Disconnect the sensor wires to the left solenoid valve. Set these wires out of way and make sure they will not make contact with each other or any metal or framework.
3. Connect the wires from the center solenoid valve and connect them to the left solenoid valve.
4. Reconnect the transformer to the wall outlet for power.
5. Use your hands to activate the center station and watch for the water to come out at the left station.

Conclusion:

If the left station works and shuts off, then we know that the **solenoid is the problem** in the center station.

If the **left station does not shut off**, then we know it is the **sensor** in the center station that **is** causing **the problem.**

Solution:

If the Sensor is the Problem it will have to be replaced. It cannot be repaired or adjusted in any way.

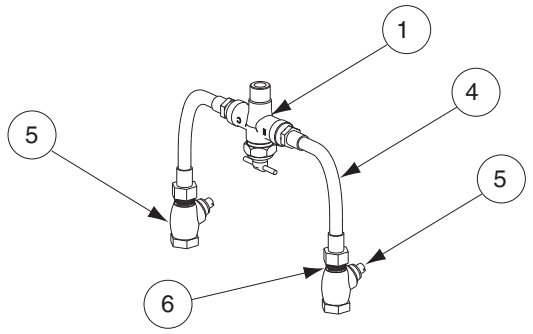
If the Solenoid Valve is the Problem it is most likely due to debris between the valve seat and diaphragm. This happens frequently in new and recent plumbing installations.
Take the solenoid valve apart and clean. Disconnect the wires from the solenoid. Loosen and remove the screw on top of the coil of the solenoid valve. Unscrew the bonnet nut (counterclockwise) and tip forward to remove from the valve body. Remove the diaphragm (269-580). Remove any particles that may have been trapped between the diaphragm and the valve seat. Rinse off the diaphragm and inspect for damage. Make sure both orifices in the diaphragm are open.
Reassemble and retry the solenoid valve. If there is still a problem, replace the solenoid valve.
If ordering replacement solenoid valves, be careful to order correctly, either an “individual” or a “ganged” solenoid valve.

Sentry Transformers

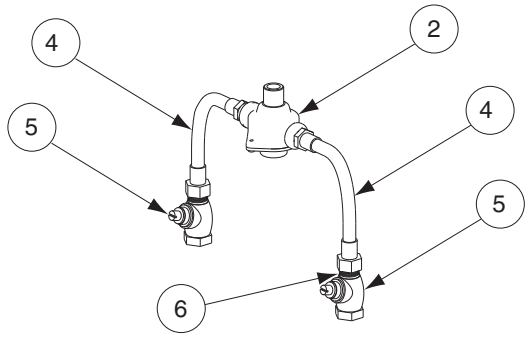
Model	Description	Current Part Number		Prior to May 2003	
			Qty		Qty
SN2003	36" Semi-Circular – Floor Mounted	S45-2045	1	269-645	1
SN2004	54" Semi-Circular – Floor Mounted	S45-2045	1	269-645	1
SN2023	36" Semi-Circular – Wall Mounted	S45-2045	1	269-645	1
SN2024	54" Semi-Circular – Wall Mounted	S45-2045	1	269-645	1
SN2005	36" Circular – Floor Mounted	S45-2045	2	* 269-703	1
SN2008	54" Circular – Floor Mounted	S45-2045	2	* 269-703	1
SN2013	54" Corner – Floor Mounted	S45-2045	1	269-645	1
SN2033	54" Corner – Wall Mounted	S45-2045	1	269-645	1

* Available for service.

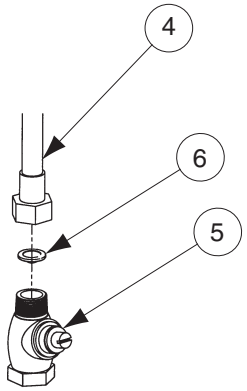
Supply — Valves (Prior to May 2, 2005)



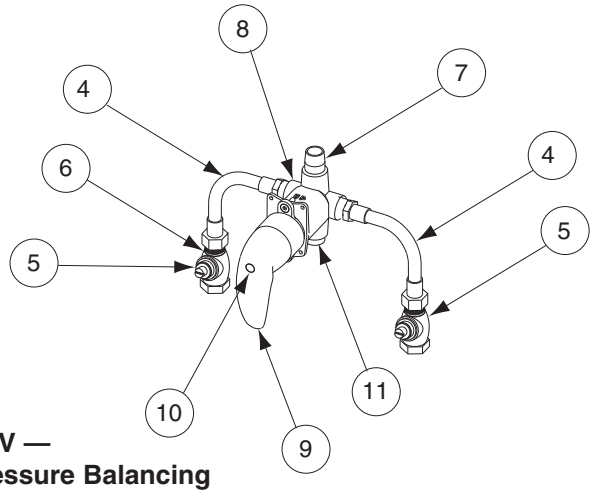
MMV —
Manual Mixing
Complete Assy. as Shown - S67-203



TMA —
Thermostatic Mixing
Complete Assy. as Shown - S67-571



TL —
Tempered Line
Complete Assy. as Shown - S45-1966



PBV —
Pressure Balancing
Complete Assy. as Shown - S67-516

Parts List — Supply Valves

Item	Part No.	Description	MMV Qty	TMA Qty	TL Qty	PBV Qty
1	S01-038B	Mixing Valve - Manual	1	—	—	—
2	S01-116B	Mixing Valve - Thermostatic - Vernatherm	—	1	—	—
4	269-653	SS Flex Hose 1/2" NPT	2	2	1	2
5	S27-102	Check Stop	2	2	1	2
*6	269-1188	Filter Washer	2	2	1	2
7	113-006DH	1/2 x 1-1/2 Brass Pipe Nipple	—	—	—	1
8	S67-594	Valve	—	—	—	1
9	128-161	Handle for valve	—	—	—	1
*10	160-214	Screw for handle (PBV Valve only)	—	—	—	1
11	169-168	Pipe Plug for bottom of valve	—	—	—	1

* Not Illustrated.

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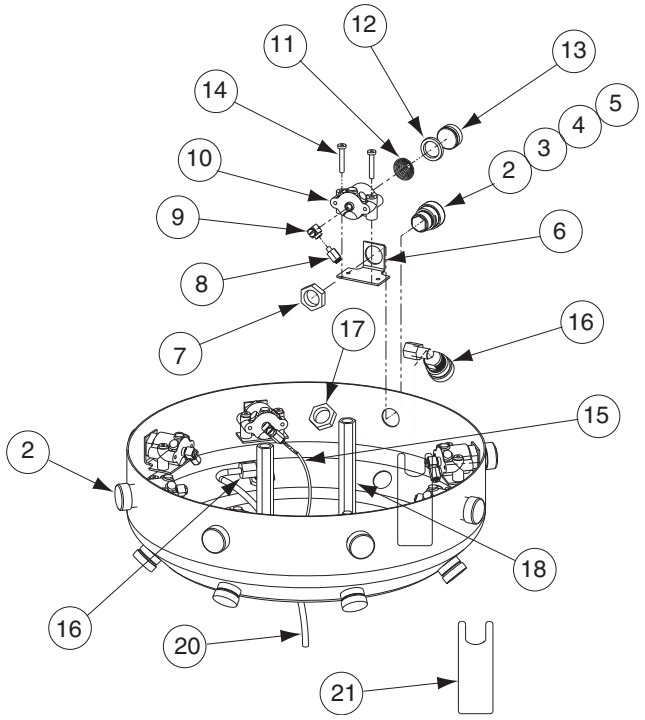
Air Metering Valve (AST) — Hand Pushbutton and Sprayhead
(Prior to May 2, 2005)



Pushbutton Replacement

IMPORTANT: Turn off water supplies before replacing the pushbutton.

1. Remove the sprayhead cover by removing the two screws holding the cover to the sprayhead module.
2. Inside sprayhead, unscrew the two screws that hold the actuator body to the bracket being careful of the spring that will release.
3. Unscrew and remove the coupling if necessary.
4. Unscrew and remove the brass nut if necessary. This will allow the pushbutton assembly to be removed.
5. Carefully take apart the assembly and replace the parts as needed.
6. After replacement is complete, reassemble the pushbutton and sprayhead as shown.

Parts List — Pushbutton

Item	Part No.	Description	54" Corner Qty	36" Semi Qty	54" Semi Qty	36" Circle Qty	54" Circle Qty
1	—	Shell	1	1	1	1	1
2	S08-324	Pushbutton Assy. (includes items 3 thru 5)	3	3	4	5	8
3	128-090	Pushbutton Only	3	3	4	5	8
4	179-102	Guide for pushbutton	3	3	4	5	8
5	147-033	Screw for pushbutton	3	3	4	5	8
6	140-743	Bracket - Actuator	3	3	4	5	8
7	110-115	Nut 1/2"-14	3	3	4	5	8
❶ 8	169-890	Connector 1/8" tube x 10-32 Thd.	3	3	4	5	8
❶ 9	269-1186	"L" Fitting Adjustable	3	3	4	5	8
❶ 10	118-279	Actuator Body	3	3	4	5	8
❶ 11	135-065	Spring	3	3	4	5	8
❶ 12	125-099	U-Cup for piston	3	3	4	5	8
❶ 13	119-227	Piston	3	3	4	5	8
14	160-165	Screw - Body mounting	6	6	8	10	16
15	R68-600008	Tubing 1/8" OD (specify length in feet)	—	—	—	—	—
* 16	S05-157	Aerator Assembly (Std 0.5 GPM)	3	3	4	5	8
* 16	S05-172	Aerator Assembly (Optional 1.5 GPM)	3	3	4	5	8
17	110-115	Nut - 1/2" - 14	3	3	4	5	8
18	161-082	Nut - Extension 1/4"-20 x 5-1/8"	2	2	2	2	2
19	130-141	Spanner Wrench for Aerators	1	1	1	1	1
20	R68-600011	Tubing 1/4" OD (specify length in feet)	—	—	—	—	—
21	130-023	Spanner Wrench for Pushbuttons	1	1	1	1	1

❶ Prepack S65-168A * See following page for additional information.

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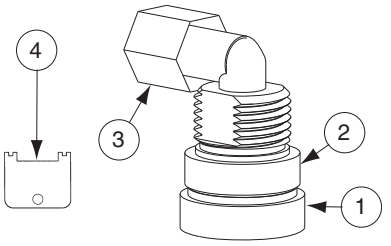
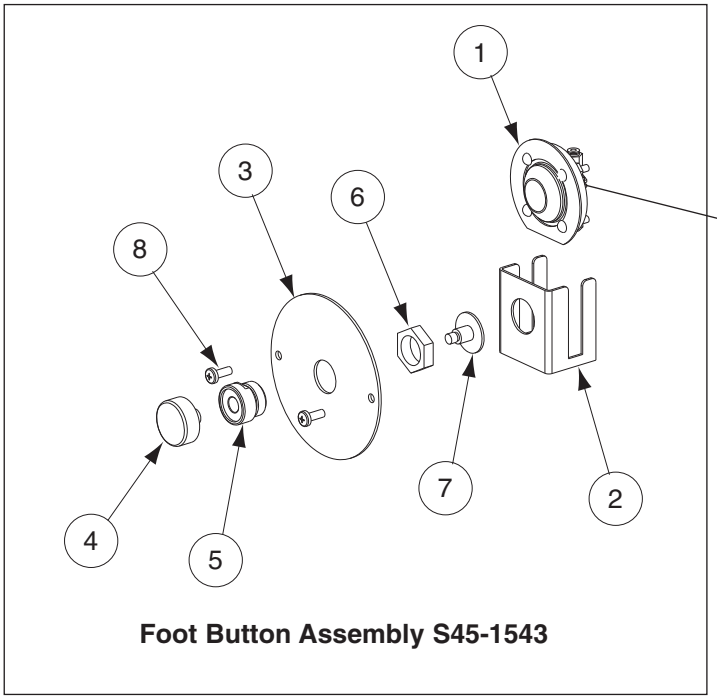
Air Metering Valve (AST-F) — Foot Pushbutton and Actuator (Prior to May 2, 2005)

Parts List — Aerator Assembly

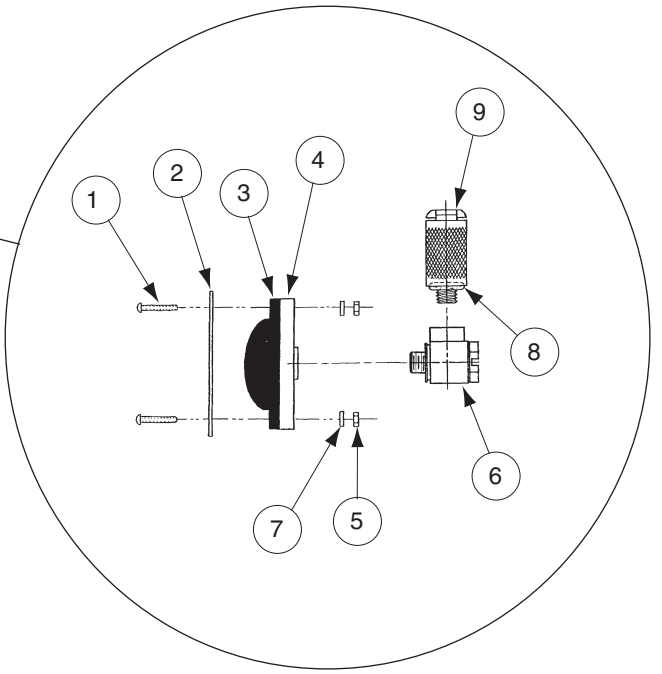
Item	Part No.	Description	S05-157 Qty	S05-172 Qty
1	S05-142A	Std. Aerator, 0.5 GPM	1	—
1	153-397	Extra Flow Aerator, 1.5 GPM	—	1
2	153-402A	Adapter	1	1
3	145-090	90° Connector 1/4" tube x 1/8" NPT	1	1
* 4	130-141	Spanner Wrench for Aerator	—	—



* Spanner wrench not included in Assemblies



Foot Button Assembly S45-1543



Actuator Assembly S08-288

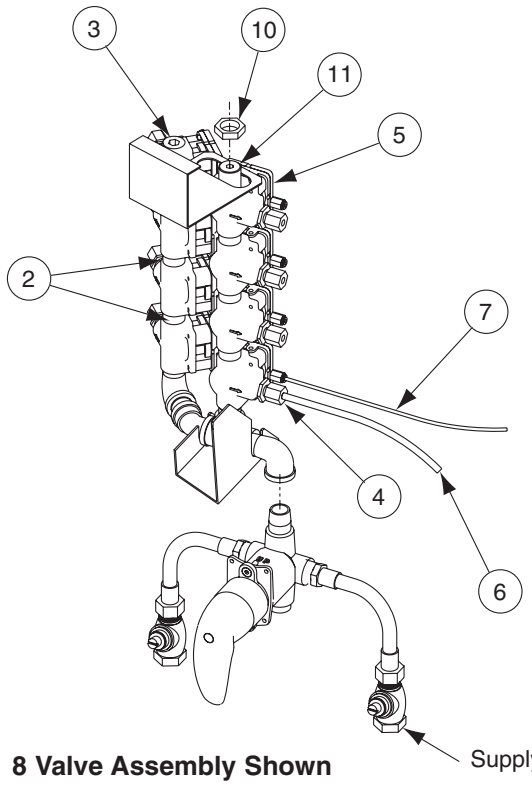
Parts List — Pushbutton & Actuator Assy.

Item	Part No.	Qty	Description
1	S08-288	1	Actuator Assy.
2	140-604	1	Bracket
3	150-198	1	Escutcheon
4	128-090	1	Pushbutton
5	179-071	1	Pushbutton Guide
6	110-115	1	Nut 1/2"-14
7	119-132	1	Plunger
8	160-245	2	Screw for escutcheon

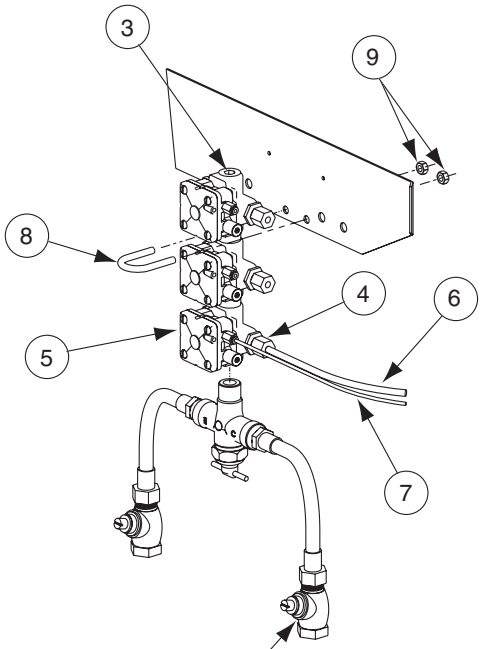
Parts List — S08-288 Actuator Assy.

Item	Part No.	Qty	Description
1	160-276	4	Screw 8-32 x ¾"
2	140-493	1	Mounting Plate
3	269-612	1	Diaphragm
4	269-613	1	Back Plate
5	161-062	4	Nut 8-32
6	269-1186	1	Fitting adjustable "L"
7	142-002CR	4	Washer #8 lock
8	125-001CZ	1	O-Ring
9	169-890	1	Fitting - tube connector 10-32 x 1/8"

Air Metering Valve (AST) — Valve Assembly and Components (Prior to May 2, 2005)



8 Valve Assembly Shown



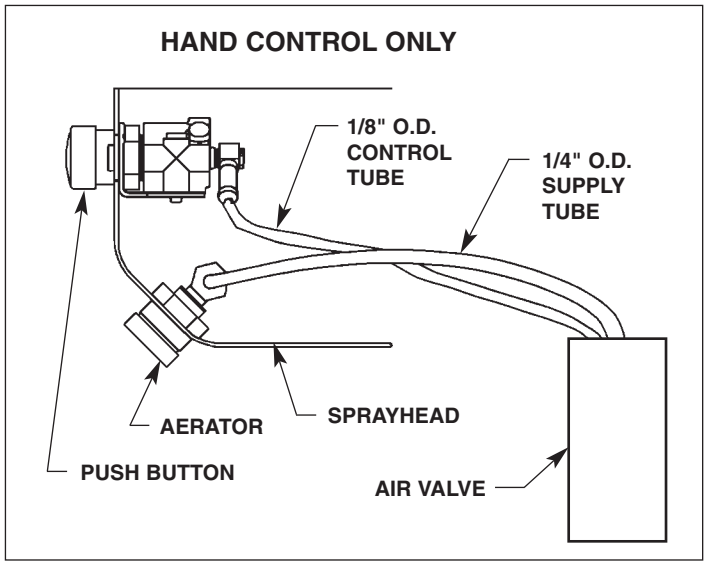
3 Valve Assembly Shown

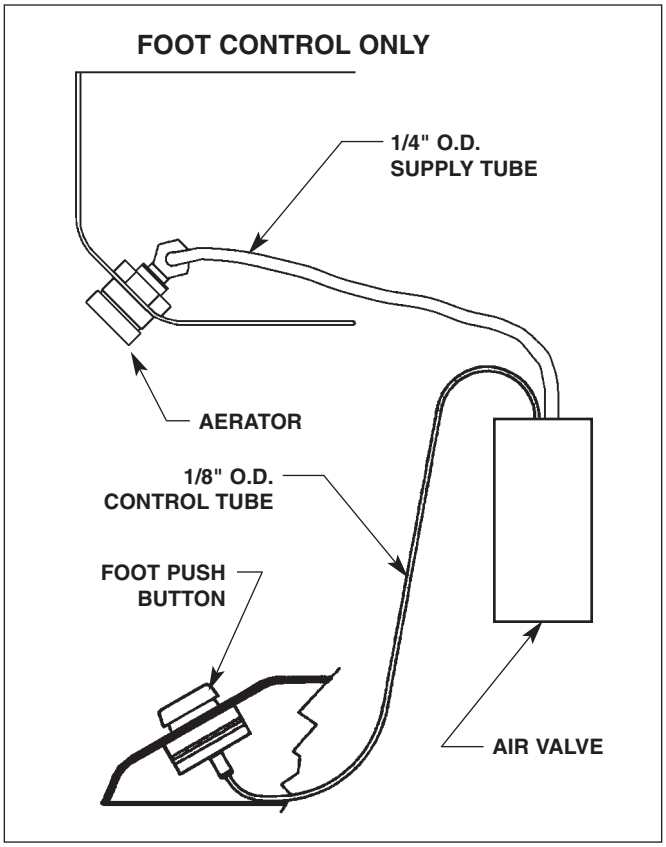
Supply parts shown in Supply Section.

Parts List — Air Metering Valve Assembly

Item	Part No.	Description	54" Corner Qty	36" Semi Qty	54" Semi Qty	36" Circle Qty	54" Circle Qty
1	S67-205	Air Valve Assy. - Hand Control	1	1	—	—	—
1	S67-206	Air Valve Assy. - Foot Control	1	1	—	—	—
1	S67-207	Air Valve Assy. - Hand Control	—	—	1	—	—
1	S67-208	Air Valve Assy. - Foot Control	—	—	1	—	—
1	S67-209	Air Valve Assy. - Hand Control	—	—	—	1	—
1	S67-210	Air Valve Assy. - Foot Control	—	—	—	1	—
1	S67-211	Air Valve Assy. - Hand Control	—	—	—	—	1
1	S67-212	Air Valve Assy. - Foot Control	—	—	—	—	1
2	113-006DH	Close Nipple 1/2"	2	2	3	4	7
3	169-168	Pipe Plug 1/2"	1	1	1	1	1
4	145-097	Connector 1/4" tube x 3/8" NPT	3	3	4	5	8
5	S07-058	Air Metering Valve - Hand Control	1	1	1	1	1
5	S07-059	Air Metering Valve - Foot Control	1	1	1	1	1
6	R68-600011	Tubing 1/4" OD (specify length in feet)	—	—	—	—	—
7	R68-600008	Tubing 1/8" OD (specify length in feet)	—	—	—	—	—
8	269-1248	U-Bolt	—	1	1	—	—
9	161-026	Nut 1/4" - 20	1	2	2	—	—
10	110-115	Nut - 1/2" - 14	2	—	—	1	1
11	153-409	Plug	—	—	—	1	1

Control Valve Illustrations (Prior to May 2, 2005)





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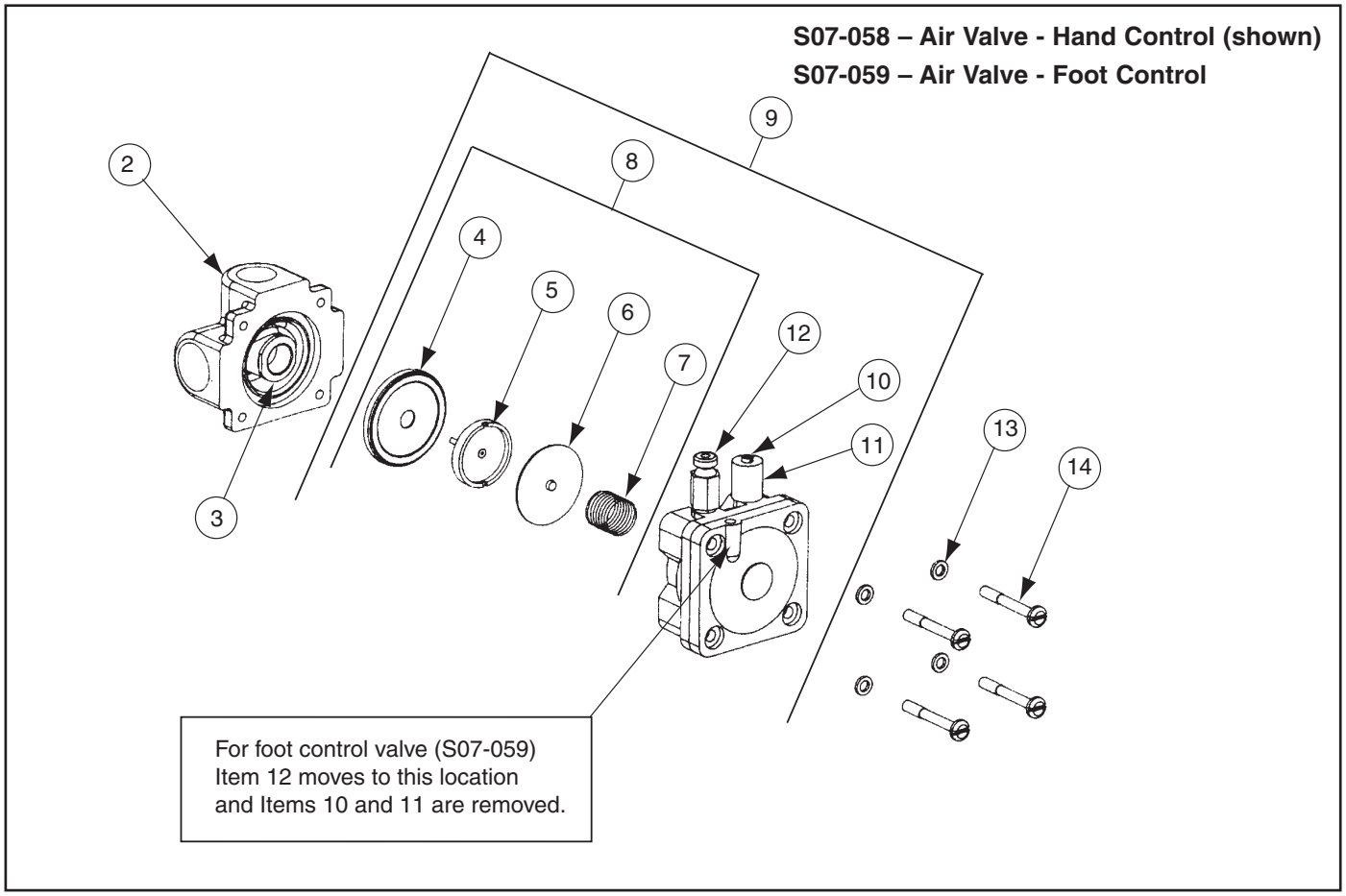
Air Metering Valve (AST) — Valve Assembly and Components*....Cont.*
(Prior to May 2, 2005)



Parts List — Air Metering Valve

Item	Part No.	Qty	Description
1	S07-058	1	Air Valve - Hand Control
1	S07-059	1	Air Valve - Foot Control (does not use timer assy.)
2	118-183	1	Valve Body lower
3	117-036	1	Valve Seat
4	269-665	1	Rubber Diaphragm
5	269-664	1	Seat Guide
6	179-082	1	Armature w/ Grommet
7	135-053	1	Spring
8	S65-110	—	Repair Kit, Air Valve - Universal (Includes Items 4-7)
9	S73-054A	—	Repair Kit, Air Valve - Hand (Includes Items 4-12)
9	S73-054B	—	Repair Kit, Air Valve - Foot (Includes Items 4-7, & 12
10	S27-254	1	Timer Assy. (Not used in S07-059)
11	269-656	1	Cover for timer assy. (Not used in S07-059)
12	169-890	1	Tube Connector 1/8" straight
13	142-002CR	4	Lockwasher #8
14	160-313	4	Screw

Air Metering Valve (AST) — Valve Troubleshooting Instructions (Prior to May 2, 2005)

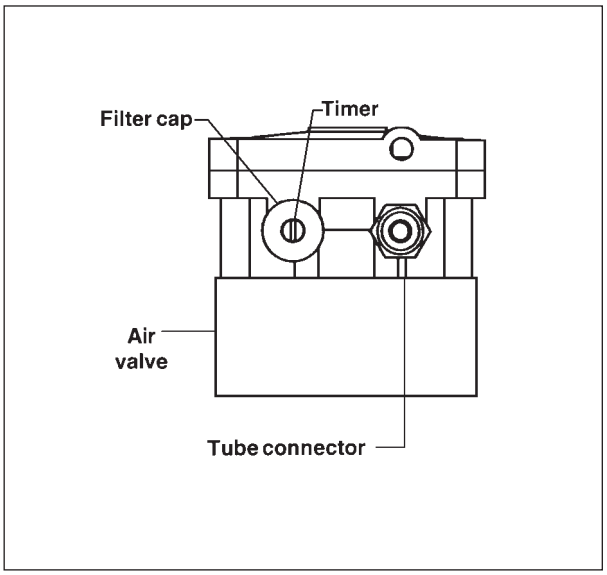
Adjust Air Valve Meter Time

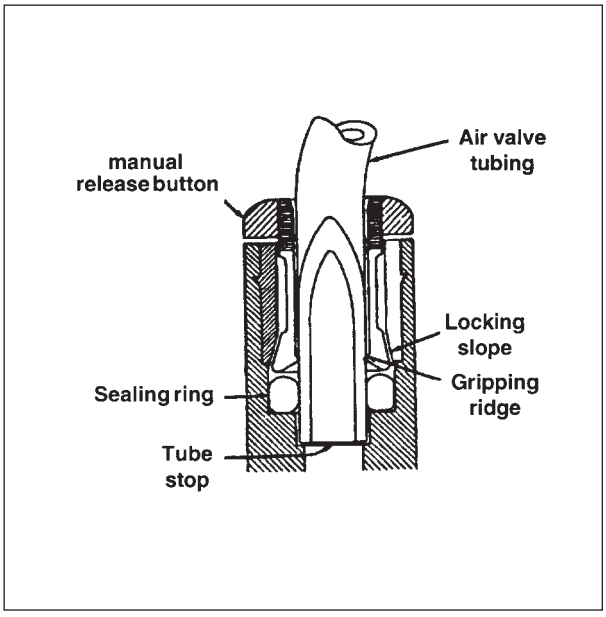
NOTE: The air valve timer is located next to the tube connector on the air valve body. The timer is capped with a filter to prevent dirt build-up on the timer. The air valve timing can be adjusting from 0–45 seconds.

1. Remove filter cap and use a screwdriver to tighten or loosen the timer. Turning the timer clockwise increases the time; turning the timer counterclockwise decreases the time.
2. Continue to adjust until the timer is set at desired length.
3. Replace filter cap over the timer.

Tube Connection Leaks

1. Push in the manual release button while pulling the tube out to disconnect the tube at the connector fitting. No tools are needed.
2. To correct a leak, press tubing firmly into the connector and make sure it is seated.
3. If leak persists, remove tubing from the fitting, and trim the tubing end square with a razor-sharp knife. If leak continues, replace the fitting or contact your Bradley representative for assistance.





Air Metering Valve (AST) — Valve Troubleshooting Instructions *....Continued*
(Prior to May 2, 2005)

Problem: Water is dripping from the aerators
Cause: Debris on valve seat or orifices

Step 1: Clean and inspect valve seat (Air Metering Valve Assembly and Components)
1. Remove screws and disassemble metering valve.
2. Clean valve seat and inspect for deep gouges or scratches. Replace if necessary.
3. Remove all debris that may be clogging center hole of the plastic diaphragm assembly and off-center hole in the rubber diaphragm.

Problem: Valve will not shut off
Cause: Timing mechanism is clogged

Step 1: Clean timing mechanism
1. Remove plastic sleeve from timer assembly.
2. Blow water and debris from timing mechanism if compressed air is available.
3. Turn the adjusting screw in all the way but do not force screw.
4. Turn adjusting screw out to desired cycle time.

Problem: Valve will not turn on
Cause: Water is not being supplied to unit

Step 1: Open all stops on the valve assembly

Problem: Timing cannot be adjusted for more than five seconds
Cause: There is an air leak

Step 1: Check assembly
1. Check all tubing and fittings for proper assembly.
2. Tighten all screws which hold valve together.

Problem: Pushbutton does not work properly
Cause: Air volume may not be sufficient to operate valve

Step 1: Check all fittings for air leaks

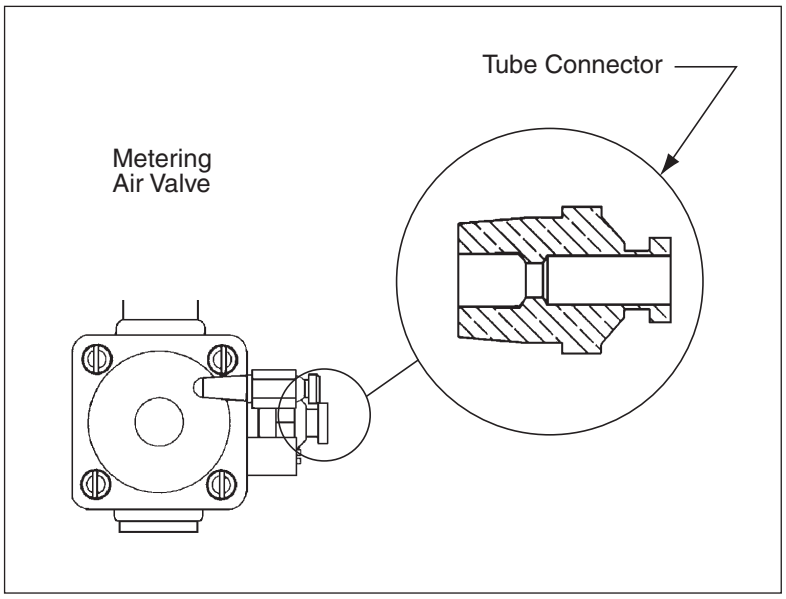
Air Metering Valve (AST) — Valve Troubleshooting Instructions *....Continued*
(Prior to May 2, 2005)

Problem: Valve cycles properly, but water does not form streams and drips from aerator

Cause: Tube connector is not seated properly

Step 1: Inspect and clean air flow control assembly

1. Replace 1/4" tubing as follows: cut 1/4" from the end of the tube to make sure the end is square, then insert into tube connector fitting.



Vernatherm® Thermostatic Mixing Valve S01-116B (Prior to May 2, 2005)

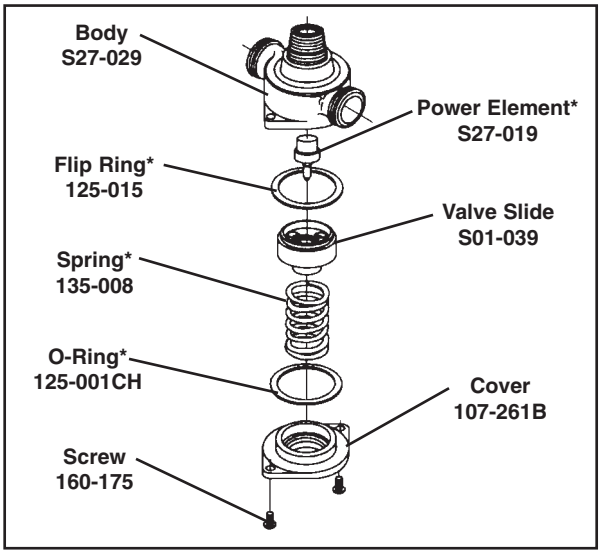
*Repair kit S45-049 is pre-packaged and includes O-Ring, Flip Ring, Power Element and Spring.

Maintenance Instructions

1. Disassemble the Vernatherm™ Valve as shown, being careful not to damage the power element. Replace the element, if necessary.
2. If necessary, remove the old flip ring and replace with a new ring.

NOTE: An old or worn flip ring may cause temperature fluctuation and/or water chatter.

3. Reassemble the power element and valve body. Apply grease to the main valve slide and gently ease into position, rotating so that grease is applied to the flip ring. Do not force the slide as this may push the flip ring from its position. To test, rotate the slide; a slight drag should be felt when correctly installed.
4. Reassemble the valve.



Service Suggestions

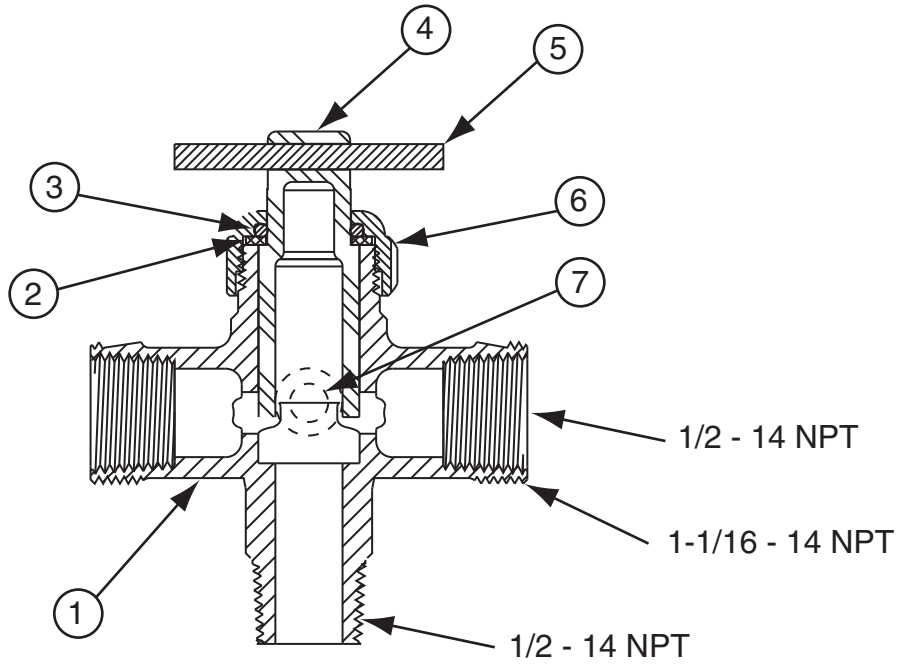
When servicing the Vernatherm™ valve, make sure it is installed in the correct position. The most common error that occurs is when the valve is installed in the reversed position, that is, the hot line is connected to the cold line and the cold is connected to the hot.

NOTE: A red ring is painted on the hot side of the valve.

The table below lists conditions that occur when the valve is installed correctly, and when it is in the reversed position.

IF			THEN
Valve Position is	**Hot Supply**	**Cold Supply**	**Valve Delivers**
Correct	Hot	Cold	Mixed 107°
Correct	Hot	No Water	Valve shuts off or drips
Correct	No Water	Cold	Valve shuts off or drips
Correct	Hot	Hot	Hot
Correct	Cold	Cold	Cold
Reversed	Hot	Cold	Cold/below 107° Hot/above 107°
Reversed	Hot	No Water	Hot
Reversed	No Water	Cold	Cold
Reversed	Hot	Hot	Hot
Reversed	Cold	Cold	Cold

Manual Mixing Valve — S01-038B (Prior to May 2, 2005)



Manual Mixing Valve Parts List

Item	Part No.	Qty	Description
1	118-034B	1	Mixing Valve Body - Brass
2	124-001BD	1	Fiber Washer
3	125-001BC	1	O-Ring
4	119-059	1	Mixing Valve Core
5	152-038	1	Roll Pin
6	121-016	1	Bonnet - Brass
7	160-197	1	Screw - Brass
—	S45-197	—	Repair Kit (Includes Items 2-7)

Check Valve Troubleshooting Instructions

If water just dribbles or does not flow from sprayhead:

1. Close stop/check valves that supply water to the washfountain.
2. Inspect stop/check valves for proper installation.
3. Remove flexible hoses at stop/check valves and clean the strainers if necessary.

If water sprayhead delivers all hot or cold water:

1. Close stop/check valves that supply water to the washfountain.
2. Inspect stop/check valves for proper installation.
3. Remove flexible hoses at stop/check valves and clean the strainers if necessary.
4. Inspect mixing valve for proper installation.
   - Hot inlet is marked with red paint.

Care and Cleaning of Stainless Steel Sentry Washfountains

Stainless steel is extremely durable, and maintenance is simple and inexpensive. Proper care, particularly under corrosive conditions, is essential. Follow the cleaning instructions listed below:

- Ordinary deposits of dirt and grease are quickly removed with soap and water. Whenever possible, the metal should be thoroughly rinsed and dried after washing. To remove tightly adhering deposits, use stainless steel polishing powder. In all cases, rub in the direction of the stainless steel grain.

IMPORTANT: Never use ordinary steel wool or steel brushes on stainless steel. Always use stainless steel wool or stainless steel brushes.

- Avoid prolonged contact with chlorides, bromides, thiocyanates, and iodides on stainless steel equipment, especially if acid conditions exist.
- Do not permit salty solutions to evaporate and dry on stainless steel.
- The appearance of rust streaks on stainless steel leads to the belief that the stainless steel is rusting. Look for the actual source of the rust in some iron or steel particles which may be touching, but not actually a part of the stainless steel structure. *NOTE: Strongly acidic or caustic cleaners may attack the steel causing a reddish film to appear. The use of these cleaners should be avoided.*

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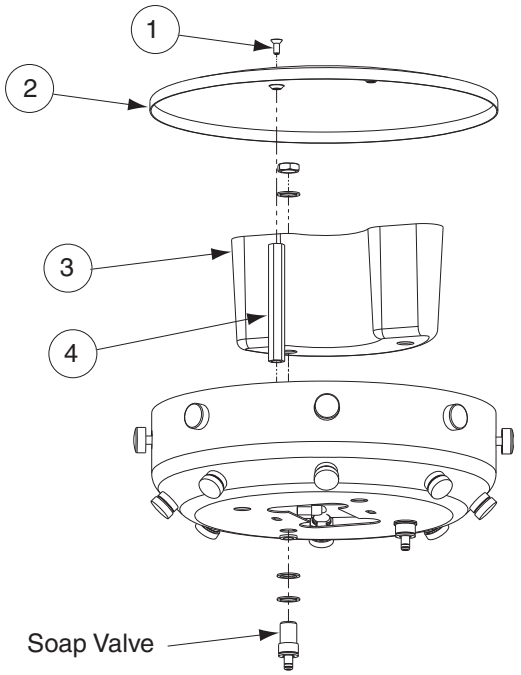
Sprayhead Cover and Soap System

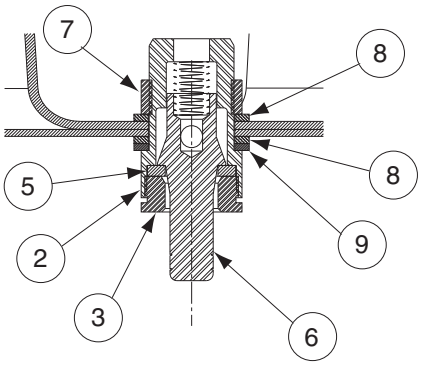


Item	Part No.	Qty	Description
1	160-154	2	Screw for cover
2	—	1	Cover - Call for part number
3	133-134	1 or 2	Tank (1 per semi, 2 per circle)
4	161-082	2	Nut - Extension 1/4"-20 x 5-1/8" for cover
*	153-330	2 or 4	Plug Button - to plug soap valve holes

* Not Illustrated.

Parts List — Soap Valve S09-007

Item	Part No.	Qty	Description
1	S09-007	1	Soap Valve - Valve only (Items 2-6)
1	S09-007S	1	Soap Valve - Valve w/ Attaching Hardware (Items 2-9)
2	118-025	1	Valve Body
3	110-007	1	Packing Nut
4	135-001L	1	Spring
5	125-001BU	1	Washer - Rubber
6	119-028	1	Plunger
7	161-014	1	Nut
8	124-001BV	2	Washer - Fiber
9	142-002AH	1	Washer - Stainless Steel



This soap valve delivers soap with each upward stroke. This soap valve is not suited for lotion soaps.

NOTE: Lotion soap will clog liquid soap valves.

Soap System *....Continued*

SOAP RECOMMENDATIONS

Quality soap dispensers require good quality soap and periodic maintenance to properly operate. Bradley soap dispensers will provide dependable, consistent operation over the long term when soap with reasonable viscosity and pH levels are used and when a minimal amount of periodic maintenance is performed on the valves.

Soap thickness is determined by a measurement called viscosity. Soap viscosity should be between 100 cps (centerpoise) and 2500 cps for all Bradley soap dispensers. Thinner soaps are perceived by the users as being "watered down" so users tend to take more than they need, resulting in waste. Thick soaps flow slower and inhibit the "flushing" action of the valves, which allows the soap to congeal in the valve and cause clogs.

The pH (acid) level of the soap should be in the range of 6.5 to 8.5. More acidic soaps (pH levels lower than 6.5) will corrode metal parts (even stainless steel!!) and degrade rubber and plastic components. They will also cause skin irritation. Most inexpensive soaps (typically the pink lotion type) fall into this acidic category and will eventually cause valve failure and metal corrosion. Base soaps (pH levels higher than 8.5) will cause swelling or degradation of rubber and plastic parts and skin irritation.

Generally, any quality soap meeting the viscosity and pH guidelines above will work well with Bradley soap dispensers. PCMX or Isapropanol based antibacterial soaps (within viscosity and pH limits) will also work with Bradley dispensers. Soaps satisfying these basic guidelines will provide consistent flow and reduce clogs.

Most soap dispenser problems are caused by soap that is too thick or corrosive, or by a lack of maintenance. Many soaps come in concentrate form which must be diluted with water. Often, the soap is improperly diluted or used straight out of the bottle, which causes clogging and valve failure. If proper soap is being used, valves that have never been cleaned are usually the source of dispensing problems. Bradley has entered into an agreement with Champion Brand Products to provide additional customer service for purchasers of our dispensers regarding soap issues. They are very helpful and can get to the bottom of almost any soap dispenser related problem. They also sell an excellent "Bradley approved" soap. Please see **Soap Instruction Sheet 215-1286** for details about soap valve cleaning or how to contact Champion. With proper maintenance and soap, Bradley dispensers will provide long term, trouble free operation.

SOAP DISPENSER MAINTENANCE INSTRUCTIONS

Sentry Washfountains

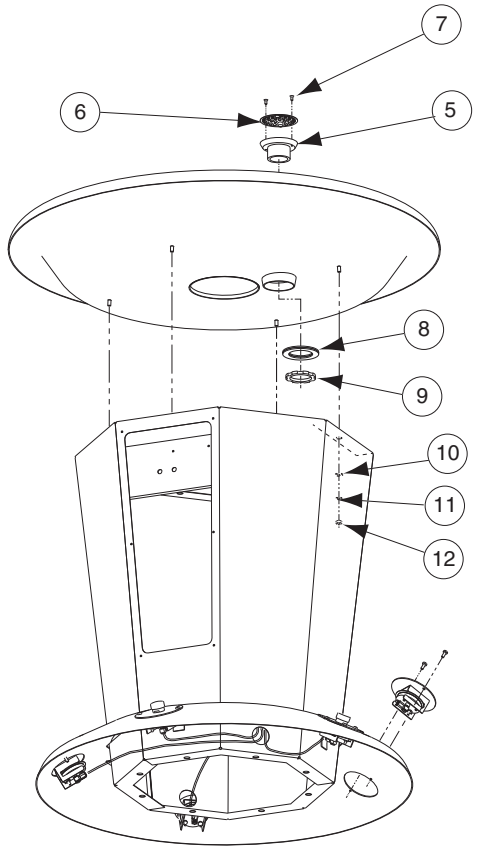
Bradley soap dispensers will provide dependable, consistent operation over the long term when the proper soap is used and when a minimal amount of periodic maintenance is performed on the valves. Valves must be maintained (cleaned) to function properly.

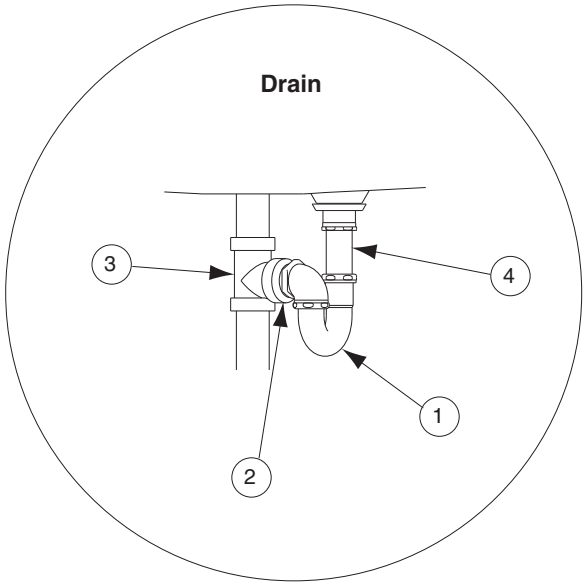
To ensure proper operation of your soap dispenser, follow these instructions:

- Once per month, remove the cap from the soap tank and insert the draw tube (below the cap) into hot water and soak it for 30 minutes.
- Push valve at least 20 times while it is soaking.
- Flush soap reservoir with hot water while valve is soaking.

In cases of extreme clogging, the valve should be disassembled and the parts should be soaked in hot water or cleaning solution to restore proper functioning. Soap dispensers that will not be used for extended periods of time (schools during summer break, etc.) should be drained, cleaned and left empty until put back into service. Soap left on the outside of dispensers can cause discoloration and corrosion of the reservoir (even on stainless steel units). All soap should be wiped or scrubbed off daily, then the outside of the dispenser should be rinsed with clear water and dried with a soft cloth.

Pedestal Assembly — Access Panels, Bowl Hardware, Drain Parts





Parts List — Access Panel

Model No.	Part No.	Qty	Height
SN2003	186-1207	1	STD/JUV
SN2004	186-1207	1	STD/JUV
SN2005	186-1202	2	STD/JUV
SN2008	186-1202	2	STD/JUV
SN2013	186-743	2	JUV
SN2013	186-669	2	STD
SN2023	186-1207	1	WALL
SN2024	186-1207	1	WALL
SN2033	186-757	2	WALL

Access Panel Screws, #10-24 x 1/2" long P/N 160-120

Parts List — Drain

Item	Part No.	Qty	Description
1	S29-021	1	P-Trap 1½"
2	113-731	1	Close Nipple 1½"
3	269-557	1	Tee-Y 1½"
4	S29-083	1	Tailpiece 1½"
5	112-028	1	Drain Spud
6	173-002	1	Strainer
7	160-042	2	Screw for strainer
8	142-063	1	Washer for spud
9	161-148	1	Nut for spud

Parts List — Bowl Hardware

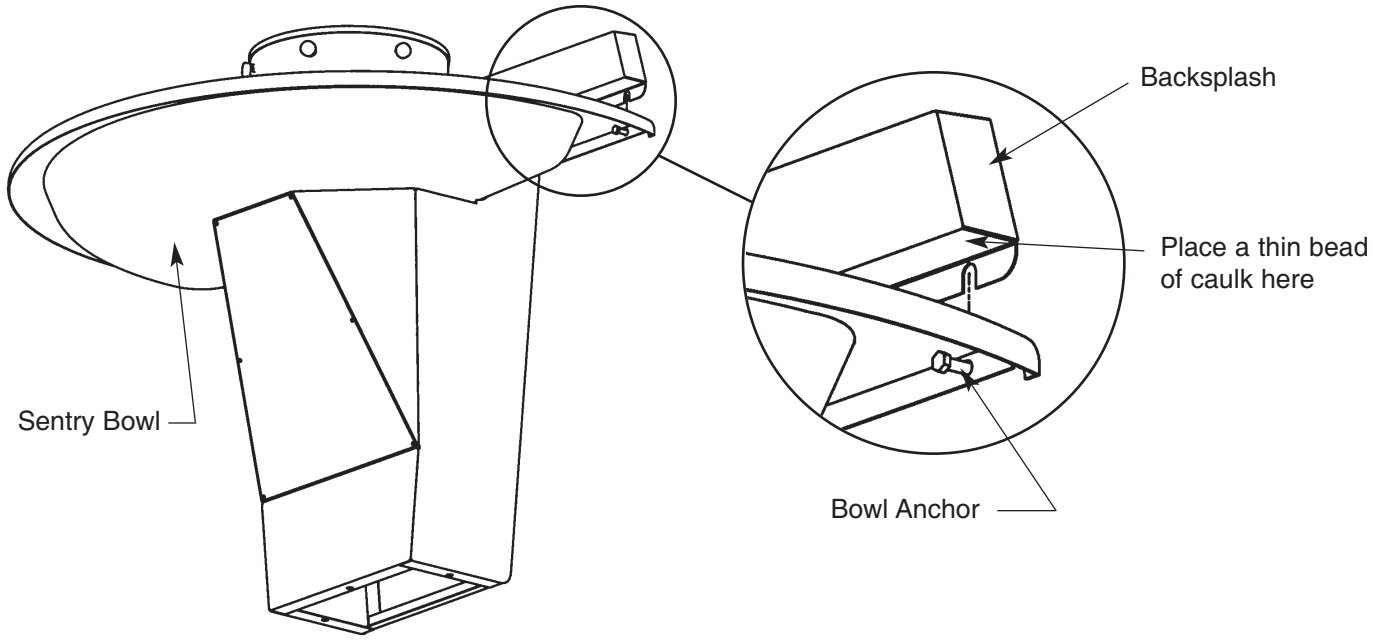
Item	Part No.	Qty	Description
10	142-002AT	3 or 4	Flat Washer ¼"
11	142-002BS	3 or 4	Lock Washer ¼"
12	161-026	3 or 4	Hex Nut ¼"-20

For attaching bowl to pedestal.

Backsplash Retrofit Kits — S65-237 for 36" Semi, S65-238 for 54" Semi

Installation

1. Loosen the bowl anchors.
2. Slide the backsplash between the wall and bowl making sure the slots on the backsplash are aligned with the bolts.
3. Caulk the lower edge of the backsplash where it meets the bowl.
4. Tighten the bowl anchors.

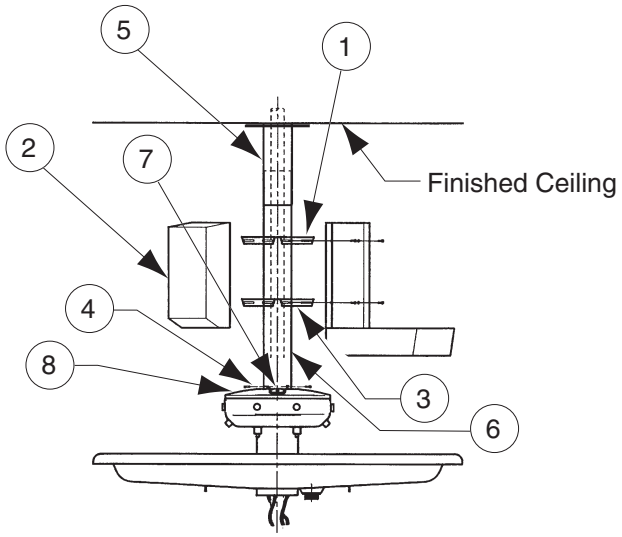


Parts List — Backsplash Retrofit Kit

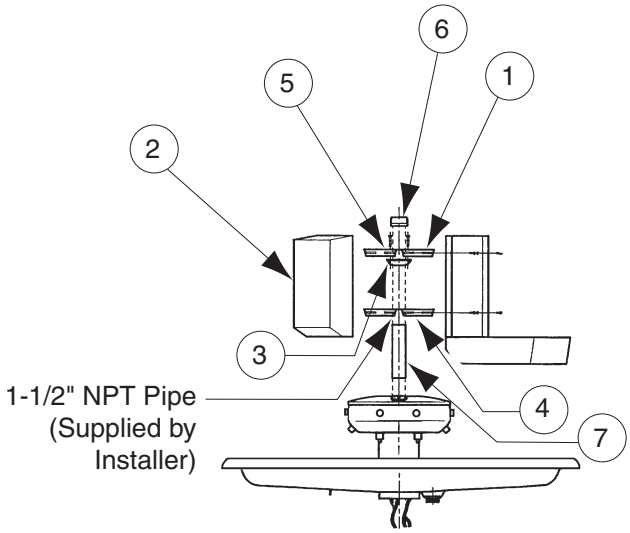
Item	Part No.	Qty	Description
3	S65-237	1	36" Semi-Circle
3	S65-238	1	54" Semi-Circle

Shrouds/Towel Dispensers

Shroud



Pipe



Parts List — Shroud Installations

Item	Part No.	Description	Corner & Semi Qty	Circle Qty
1	S70-095	Mounting Bracket - for shroud mtg.	2	2
2	S78-002	Towel Dispenser - Single fold	2	3
2	S78-001	Towel Dispenser - Multi fold	2	3
*	S45-183	Prepack - For shroud mounting	—	—
3	160-169	Screw - Bracket to shroud (included in S45-183)	6	6
4	160-138	Screw - Shroud to cover	3	3
5	S57-040	Slip Ring for shroud	1	1
6	—	Shroud - Call for part number	1	1
7	S10-009	Soap Filler Cap	2	2
8	107-445	Sprayhead Cover for Shroud	1	1

Parts List — Pipe Installations

Item	Part No.	Description	Corner & Semi Qty	Circle Qty
1	S70-123	Mounting Bracket - for 1½" pipe mtg.	2	2
2	S78-002	Towel Dispenser - Single fold	2	3
2	S78-001	Towel Dispenser - Multi fold	2	3
*	S45-205	Prepack - for 1½" pipe mtg.	—	—
3	159-020	Tie Bar-Tie Pipe (included in S45-205)	2	2
4	160-208	Screw - Tie bar to pipe (included in S45-205)	6	6
5	160-111	Screw - Bracket to tie bar (included in S45-205)	4	4
6	169-986A	Pipe Cap (included in S45-205)	1	1
7	113-170	Spacer Sleeve - for 1½" pipe mtg.	1	1